

FIG. 1

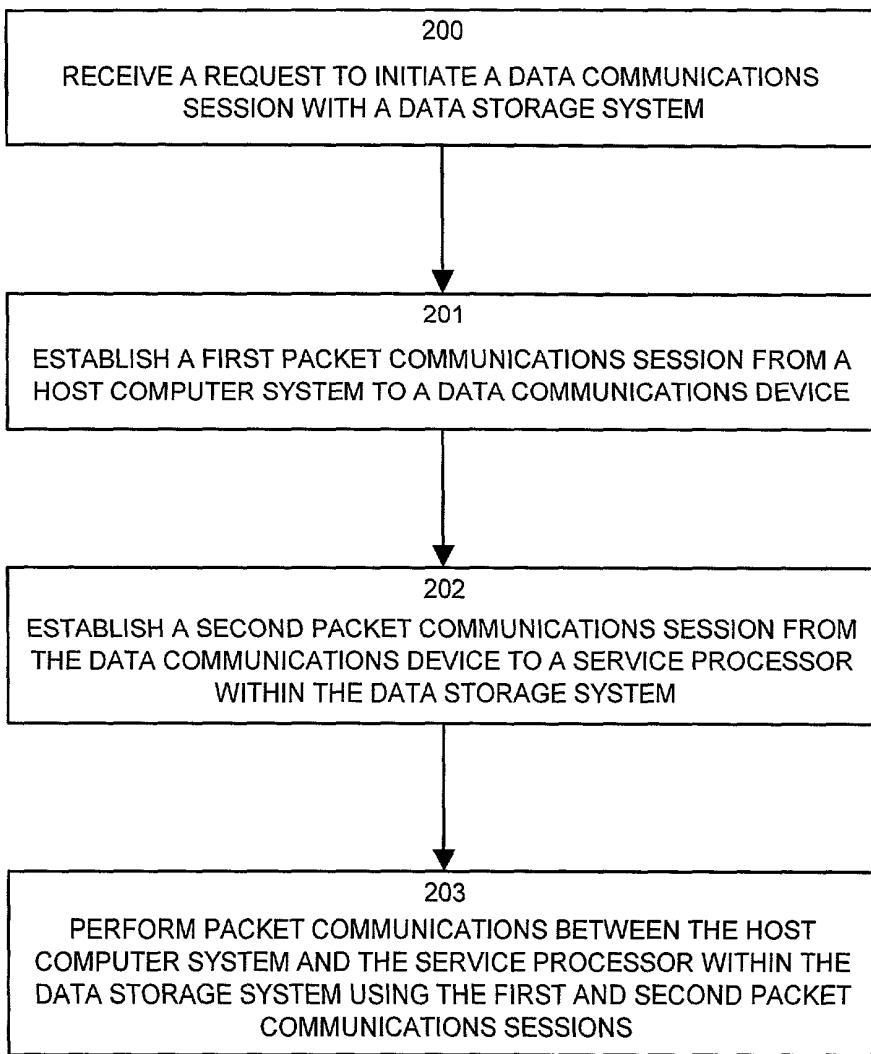


FIG. 2

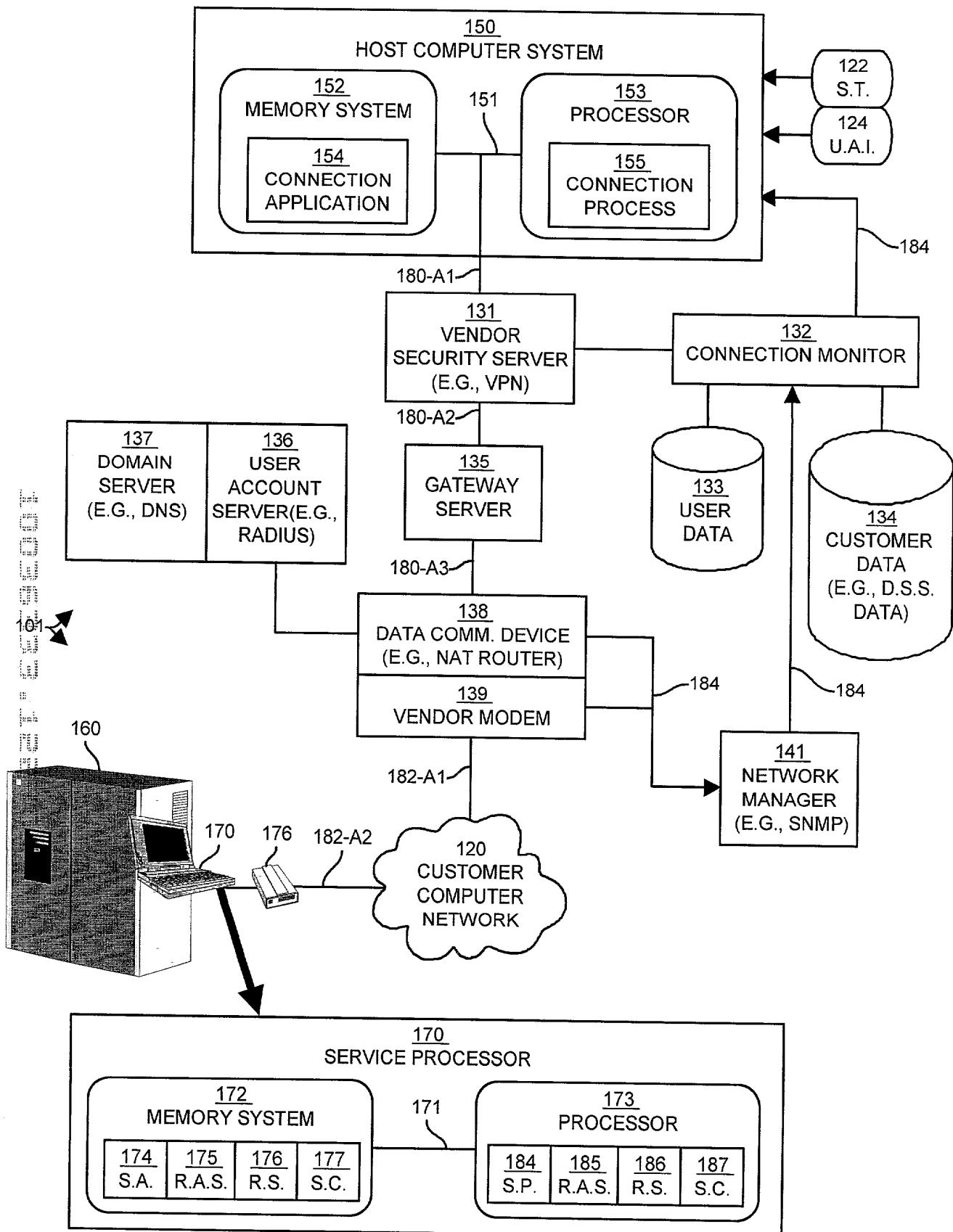


FIG. 3

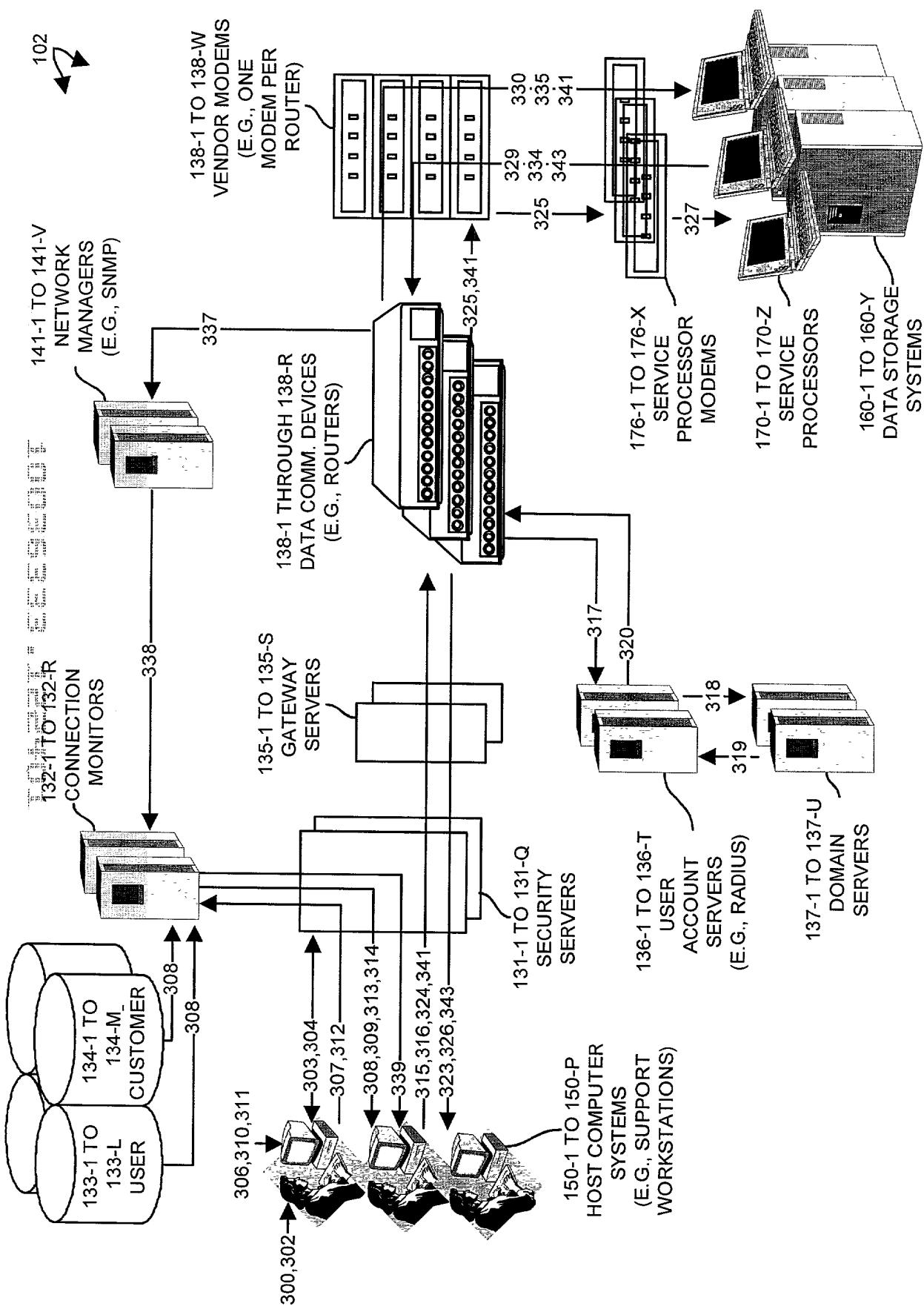


FIG. 4

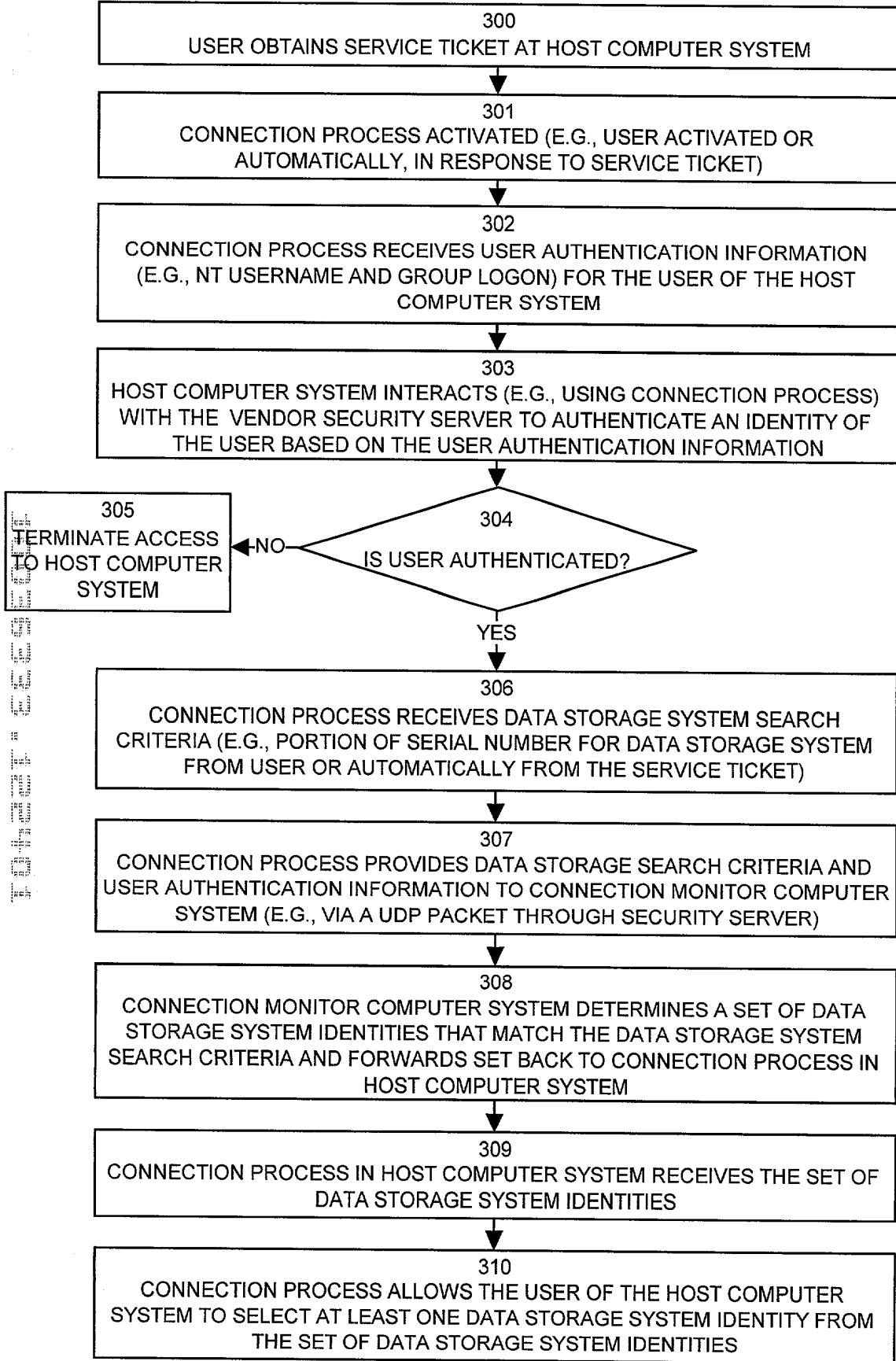


FIG. 5

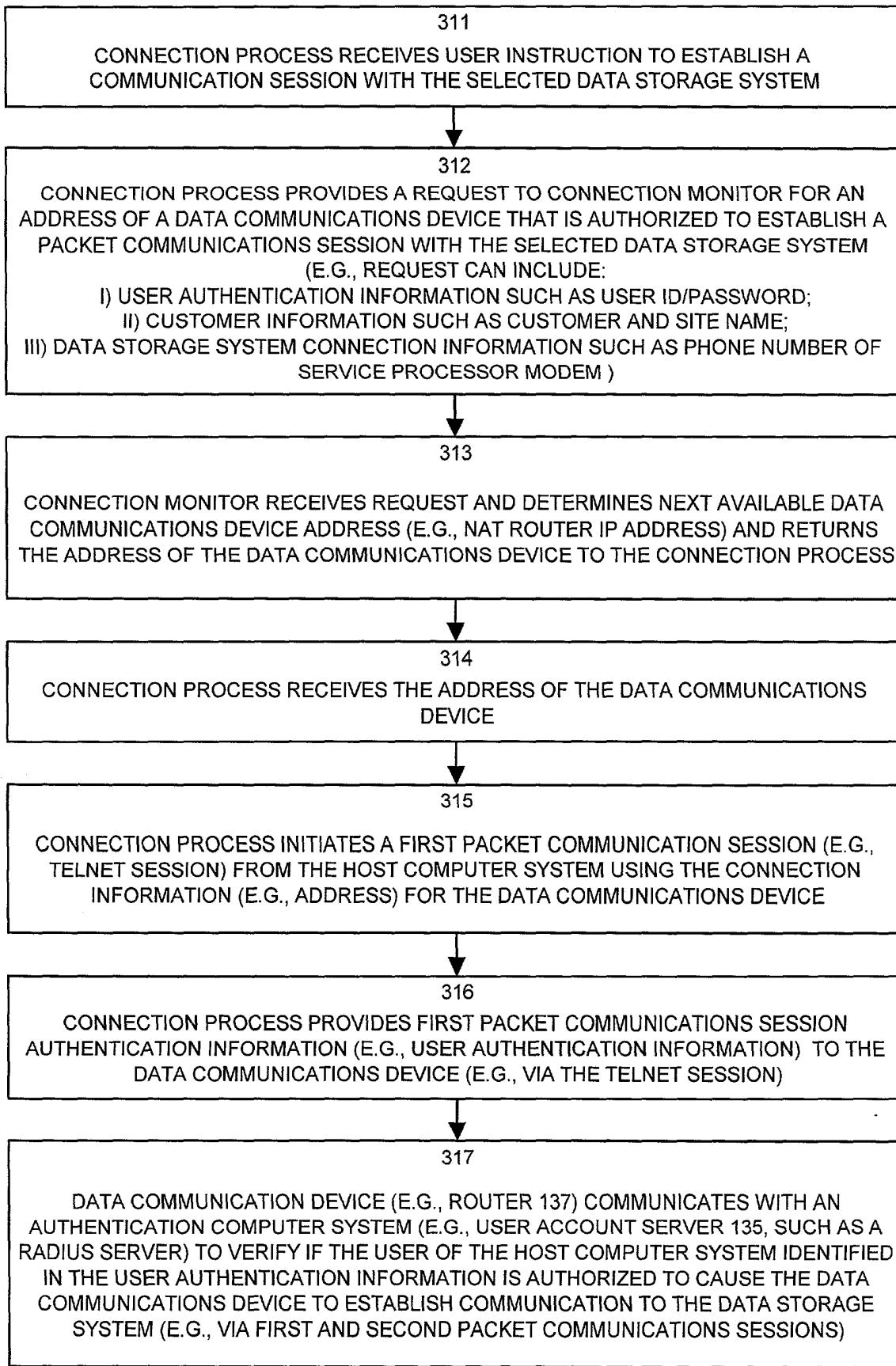


FIG. 6

318

USER ACCOUNT SERVER (E.G., RADIUS SERVER) REQUESTS USER AUTHENTICATION AND GROUP MEMBERSHIP VERIFICATION FROM DOMAIN SERVER (E.G., NT DOMAIN CONTROLLER)

319

DOMAIN SERVER RETURNS REQUESTED INFORMATION TO USER ACCOUNT SERVER

320

USER ACCOUNT SERVER RETURNS VERIFIED USER GROUP MEMBERSHIP TO DATA COMMUNICATIONS DEVICE TO DETERMINE ACCESS OR DENIAL OF ESTABLISHMENT OF FIRST PACKET COMMUNICATIONS SESSION

321

DATA COMMUNICATIONS DEVICE DETERMINES IF USER IS AUTHENTICATED AND AUTHORIZED TO ACCESS DATA COMMUNICATIONS DEVICE

ACCESS DENIED

DATA COMMUNICATIONS DEVICE
HOST COMPUTER SYSTEM
DATA STORAGE SYSTEM
ROUTER
MODEM
SERVICE PROCESSOR

322
TERMINATE SESSION

323

DATA COMMUNICATIONS DEVICE INDICATES TO THE HOST COMPUTER SYSTEM THAT PERMISSION IS GRANTED TO CONNECTION PROCESS TO ESTABLISH COMMUNICATIONS WITH DATA STORAGE SYSTEM

324

CONNECTION PROCESS NEGOTIATES WITH DATA COMMUNICATIONS DEVICE TO PROVIDE SECOND PACKET COMMUNICATIONS SESSION CONNECTION INFORMATION (E.G., DATA STORAGE SYSTEM CONNECTION INFORMATION SUCH AS A PHONE NUMBER AND USER AUTHENTICATION INFORMATION)

325

DATA COMMUNICATIONS DEVICE INITIATES THE SECOND PACKET COMMUNICATIONS SESSION (E.G., 182) TO THE DATA STORAGE SYSTEM USING THE DATA STORAGE SYSTEM CONNECTION INFORMATION (E.G., ROUTER CAUSES MODEM TO DIAL MODEM ASSOCIATED WITH THE SERVICE PROCESSOR IN DATA STORAGE SYSTEM)

FIG. 7

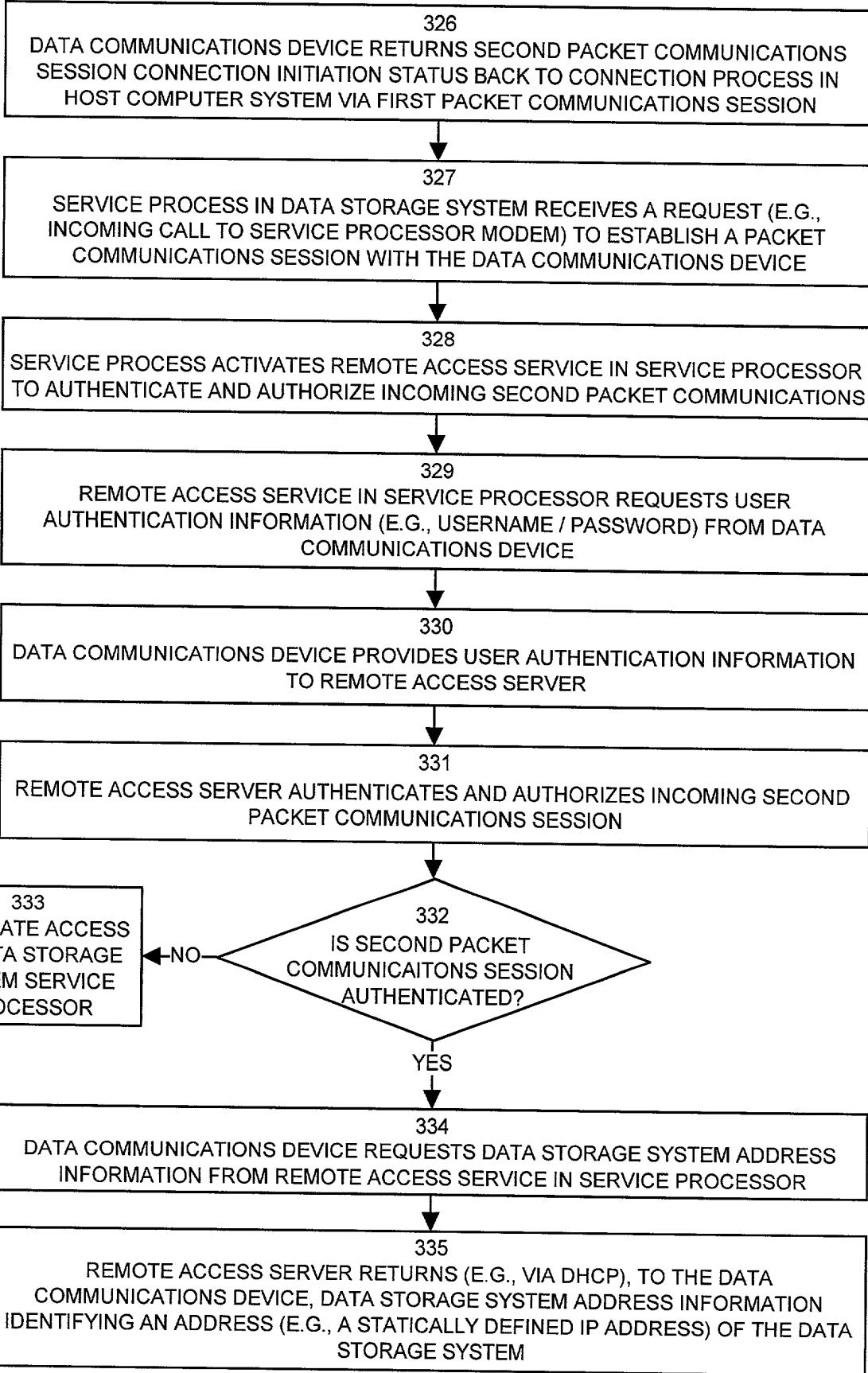


FIG. 8

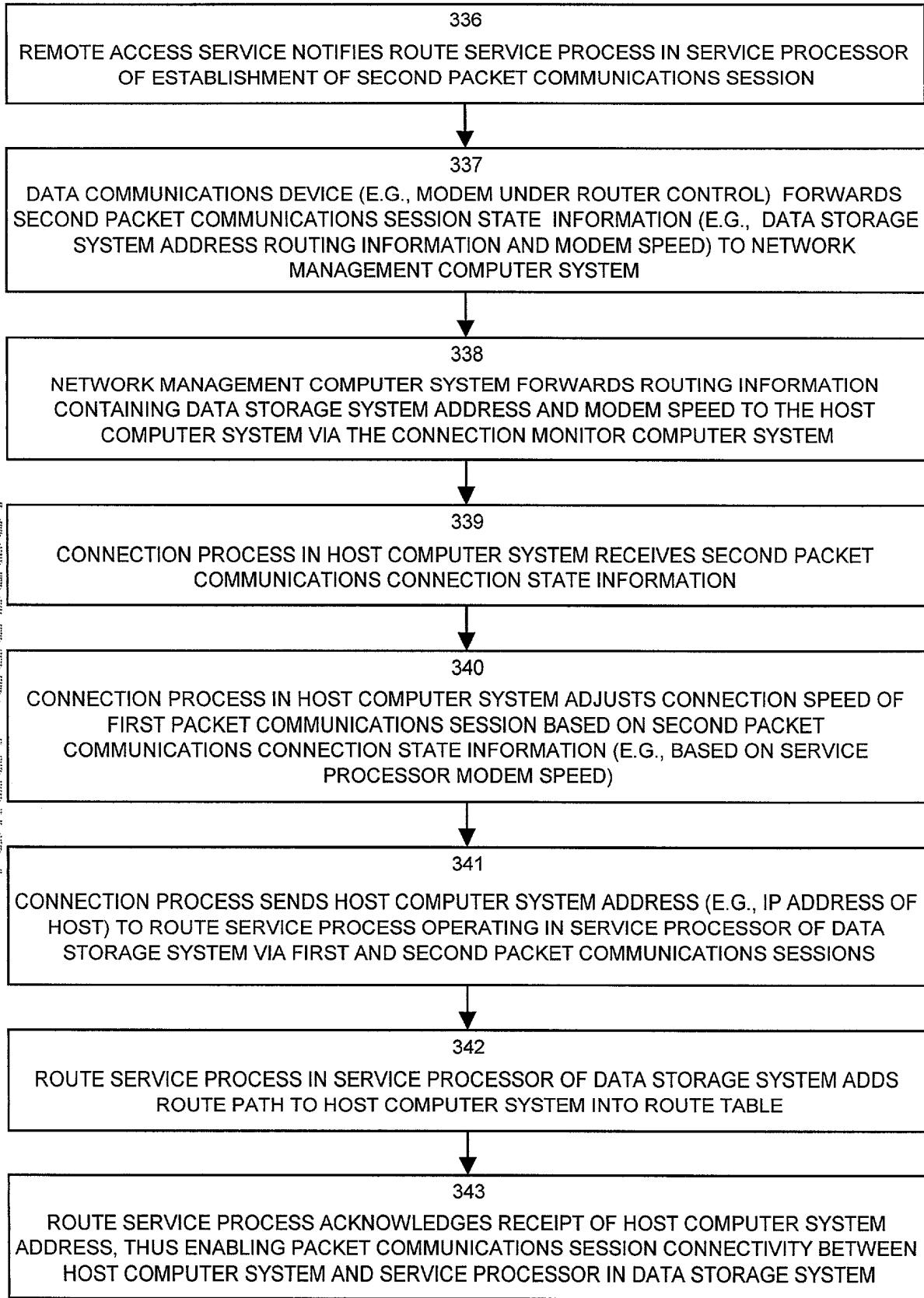


FIG. 9